

Criteria and indicators for individual and group certification of Sustainable Forest Management



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Framing and definitions

According to the PEFC Standard, the evaluation of sustainable forest management (SFM) is based on the criteria (C), indicators (I) and operational guidelines (LG) developed at the Helsinki and Lisbon Ministerial Conferences, during the so-called 'Pan-European Process' for the protection of forests in Europe.

This document is structured in such a way as to respect the division of the six defined criteria of sustainable forest management at a pan-European level, with a view to using them at a national level for the certification of the forestry sector only (not for arboriculture)

Rules for reading the document

Each criterion is numbered from 1 to 6 and can encapsulate guidelines for forest management planning and practice.

Guidelines are mandatory requirements when they are present and must be complied with, even beyond the scope of the indicators indicated under them. Indicators may be mandatory or informative.

Informative' indicators are reported with the aim of improving information and communication between the various stakeholders in sustainable forest management.

The 'compulsory' indicators, on the other hand, are relevant to the forest system and forest management and form the basis for verifying the certification criteria.

For each indicator, there are

MEASUREMENT PARAMETERS: measurable quantities or elements to be evidenced CRITICALITY THRESHOLD (for mandatory indicators): requirement

SCOPE OF IMPROVEMENT: proposed thematic line for performance improvement SOURCE OF INFORMATION AND RECORDING: examples of tools to be used to collect information

Requirement for access to the certification system

Compliance with laws at various levels (regional, national and EU) is a mandatory prerequisite, so it is a concept that is not made explicit in the various indicators.

In the case of group certification, only PEFC group members will be considered certified; only their forest area will be considered certified and only forest material from it will therefore be considered certified.

This document has been drawn up on the basis of PEFC Standard ST 1003:2024.

All definitions relevant for the interpretation of this standard are in ITA 1000 (Chapter 1.3.1).

MAINTENANCE OR APPROPRIATE ENHANCEMENT OF FOREST RESOURCES AND THEIR CONTRIBUTION TO THE GLOBAL CARBON CYCLE

GL 1.1 Forest management must safeguard in the medium and long term the quantity and quality of forest resources and their capacity to store and sequester carbon, balancing utilisation with the rate of increment, using appropriate silvicultural measures and techniques, and preferring techniques that minimise direct and indirect impacts on forest, water and soil resources.

Suitable silvicultural and planning measures should be adopted to maintain or bring forest wood mass levels to economically, ecologically and socially desirable thresholds. Climate-positive practices such as maintaining or improving carbon sequestration, reducing climate-altering gas emissions and efficient use of resources should be implemented.

Indicator 1.1 a	Forest area, other wooded land and changes in area (classified, where relevant,
	according to forest and vegetation types, ownership structure, chronological classes,
	forest origin)
Type of indicator	Mandatory
Measurement	Forest area in ha
Parameters	Change %over the period of noyears.
	Form of management: %forest; %coppice; %mixed forms.
Criticality	The reduction of forest area, especially if it has a significantly high carbon stock, is
threshold	not allowed, except in documented cases that depend on management and planning
	policies, or in cases where there is offsetting according to current legal regulations.
	In these circumstances, however, it is necessary to provide for the consultation of
	interested stakeholders, justifying the reasons for the reduction of forest area and
	giving evidence of having evaluated the comments received from stakeholders.
Scope for	Implementation and updating of databases on the extent of forest areas and related
improvement	parameters.
Example of a	National and/or regional forest inventories, forest and land-use maps, aerial
source of	photographs, satellite images, cadastre, forest management plans, or equivalent
detection and	sources.
information	

Indicator 1.1b	Changes in the total volume of woody mass (adopted as a first approximation and
	provisionally also as an indirect indicator of the total fixed carbon stock), in the
	average volume of woody mass of forest areas (classified, if appropriate according to
	the different vegetation zones or classes), in the chronological classes or appropriate
	diametric distribution classes.
Type of indicator	Mandatory

Measurement	Average wood yield of the forest:mc/ha. Variation:% inyears	
Parameters	Total wood yield in the forest_mc. Variation:_% inyears	
	Total coppice wood supply:cubic meter, stacked cubic meter or ton, or if r	not
	available as utilised area Variation:% inyears	
Criticality	Mass values consistent with the management plan or the reference forest type.	
threshold		
Scope for	Pursuit of the woody mass deemed optimal for the proper functioning of the	he
improvement	ecosystem.	
Example of	Forest management plans or their equivalent.	
detection and		
information		
source		

Indicator 1.1 c	Implementation of positive climate practices
Type of indicator	Informative
Measurement	Identification of positive climate practices implemented by the organisation in the
Parameters	management operations, such as silvicultural practices to increase carbon
	sequestration (afforestation, shift elongation, coppice-to-woodland conversion), the
	reduction of climate-altering gas emissions (such as the implementation of fire-
	fighting activities), the efficient use of resources and the non-energy evaluation of
by-products resulting from management (such as brushwood, bark, low-company)	
	timber), without prejudice to the need or opportunity to release them into the forest.
Example of	Forest management plan or its equivalent at company, inter-company or higher
detection and	planning level.
information	Presence of surveying and recording of management interventions.
source	

GL 1.2 Forest conversion to agricultural use shall not occur. Forest conversion to other land use shall not occur unless in justified circumstances where conversion:

- complies with applicable national and regional land use and forest management policy and legislation and must be the result of national or regional spatial planning issued by a government or other official authority including consultation with relevant stakeholders;
- affects a small portion (no larger than 5%) of the forest category within the certified area:
- not have a negative impact on ecologically important forest areas, such as culturally and socially significant areas, or other protected areas;
- does not destroy areas with significantly high carbon stocks;
- contributes to long-term conservation, economic and social benefits.

GL 1.3 The transformation of ecologically important non-forest ecosystems after 31 December 2010 through reforestation and afforestation with forest plantation is not permitted and are not eligible for certification unless in justified circumstances. In any case, the change of use:

- must be in accordance with national and regional policy and legislation applicable at all levels for land use and forest management and must be the result of spatial planning, as defined by current regulations;
- must be established through a transparent decision-making process based on the active participation of the relevant stakeholders;
- must not have a negative impact on threatened or protected non-forest ecosystems as well as culturally and socially significant non-forest areas;
- must affect a minority portion of an ecologically important non-forest ecosystem managed by an organisation;
- must not affect areas with significantly high carbon stocks;
- must contribute to the long-term preservation of economic and social benefits.

Indicator 1.3 a	Afforestation
Type of indicator	Informative
Measurement	Area affected by afforestation:ha
Parameters	
Scope for	Assessment of afforestation opportunities. Monitoring of natural colonisation
improvement	situations by the forest.
Example of	Management plans, inventories, aerial photographs, documentation of interventions
detection and	carried out, direct verification, or equivalent sources.
information	
source	

- LG 1.4 Human-induced forest degradation shall not occur.
- Note 1: Plantation forests established by converting primary forest or naturally regenerating forests after 31 December 2010 are not eligible for certification.
- Note 2: Planted forests established by converting primary forest after 31 December 2010 are not eligible for certification
- Note 3: This requirement is not applicable for plantation forests established for protection or ecosystem restoration, as well as forests established through planting or seeding which at stand maturity resemble or will resemble naturally regenerating forests
- GL 1.5 Management plans, or their equivalents (see 3.1) appropriate to the size and use of the forest area, must be drawn up and periodically updated. They must be based on existing legislation as well as existing land use plans, and appropriately include forest resources and biodiversity protection. Monitoring of forest resources and evaluation of their management must be carried out periodically; the results should contribute (as feedback) to the planning process

MAINTAINING THE HEALTH AND VITALITY OF FOREST ECOSYSTEMS

GL 2.1 Forest management practices must make the best use of natural structures and processes and take preventive biological measures, whenever and for as long as economically feasible, to maintain and improve forest health and vitality. Adequate genetic, species and structural diversity must be encouraged and/or maintained to improve the stability, vitality and resilience of forests to adverse environmental factors and to strengthen natural regulatory mechanisms.

Indicator 2.1 a	Serious damage caused by biotic and abiotic agents: serious damage caused by
	insects and diseases with an assessment of the severity of the damage as a function
	of mortality or decline in growth; annual area of forest and other wooded land affected
	by fire; annual area affected by wind and snow damage, and the woody volume
	resulting from these events; presence of serious damage to the forest caused by
	game; presence of serious damage to the forest caused by grazing.
Type of indicator	Mandatory
Measurement	Presence/absence of an up-to-date registration system and/or catalogue of biotic,
Parameters	abiotic, man-made or unknown adversities.
Criticality	Presence of a registration system and/or up-to-date catalogue of biotic, abiotic,
threshold	man-made or unknown agent adversities.
Scope for	Integration of the registration system with planning and monitoring tools.
improvement	Adoption of silvicultural techniques and management practices that favour adequate
	specific and structural diversity so as to improve forest stability, vitality and resilience.

Indicator 2.1 b	Coppice diversification: release of areas excluded from coppicing
Type of indicator	Mandatory
Measurement	Ratio of uncut, thinned, high-stemmed areas to total managed coppice areas
Parameters	
Criticality	At least 10% coppiced areas in the presence of reduced fertility, presence of valuable
threshold	trees, habitat trees, morphological emergencies (localised reliefs) or incisions (sides
	of ditches) unless otherwise prescribed by the planning instrument and exceptions
	adequately justified.
	Indicator only applicable for pooled areas larger than 100 ha
	NB: this indicator is not applicable to chestnut and robinia formations
Scope for	Increased issuance per certification renewal
improvement	

Indicator 2.1 c	Group or mixed standard (groups, small groups -even 3 subjects- and individual
	subjects)

Type of indicator	Mandatory	
Measurement	Positioning the freshers	
Parameters	2.Shape of Single Freshmen	
Criticality	1. The location of the standards must favour the vegetation growth and reduce	the
threshold	visual impact of the intervention	
	2. Single freshmen must look as well-shaped as possible	
Scope for	Not applicable	
improvement		

GL 2.2 Appropriate forest management practices must be used, such as the use of natural regeneration (reforestation and afforestation only with tree species and provenance that are suitable for the site conditions), silvicultural operations and utilisation and extraction techniques that minimise damage to trees and/or soil, and fire prevention measures. Spills during forest management operations and indiscriminate dumping of waste in the forest must be strictly avoided. Emergency procedures for the minimisation of risk of environmental harm arising from the accidental spillage must be in place.

Non-organic waste and litter must be collected, stored in designated areas and removed in an environmentally responsible manner.

The use of fire must be limited to regions where fire is an essential tool in forest management for regeneration, wildfire protection and habitat management or a recognised practice of indigenous peoples. In these cases, adequate management and control measures shall be taken.

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and fertilisers
s from illegal
the exception
a prerequisite
als with low
environment;

Example	of	Forest management plan or its equivalent at company, intercompany or higher
detection	and	planning level
information		Presence of records of fertiliser or chemical use.
source		

GL 2.3 The use of pesticides and herbicides is not permitted in natural and semi-natural formations. except for justified phytosanitary reasons, excluding in any case those listed in Tables 1A and 1B of the WHO, and those whose derivatives remain biologically active and accumulate in the food chain, and any pesticides banned by international agreements.

For biotechnology and GMOs, a precautionary approach should be implemented, using them only after experimentation has shown that there are no impacts on the ecosystem.

GL 2.4 The use of fertilisers must be avoided in natural and semi-natural formations.

GL 2.5 On estates larger than 100 ha, where stability conditions and vegetation characteristics permit and where forest areas are absent, part of the coppice area must be transformed through forms of management that favour the formation of a structural mosaic.

MAINTENANCE AND DEVELOPMENT OF PRODUCTIVE FUNCTIONS IN FOREST MANAGEMENT (WOOD AND NON-WOOD PRODUCTS)

GL 3.1 Forest management activities must ensure the maintenance and/or improvement of forest resources in the context of local forest planning, also considering the general services provided by the forest.

Indicator 3.1 a

Percentage of forest area managed according to forest management plans (or equivalent planning instruments under regional/provincial regulations) in force, adopted or under revision.

Forest properties larger than 100 ha must be managed according to a company forestry planning instrument, with the exception of low-intensity management, where the area of intervention with cut areas is less than 50 ha during the period of validity of the certificate. In this case, however, completion of the planning sheet (Annex 1) is required.

For forest properties of less than 100 hectares, this is sufficient:

the compilation of the simplified planning sheet (for forest properties > 50 ha) (Annex 2);

the presence of higher-level general forestry planning; or

the existence of a system for monitoring the maintenance of the forest area and the total forest stock (PMPF), or

- an authorisation system for the interventions that are carried out (e.g. minutes of checks, cutting plans, infrastructure, etc.).

Note 1: planning instruments are considered as such if they are subject to codified authorisation procedures, provided for by the regulations in force, and have been submitted to the competent body for approval, if the regulation so provides.

Note 2: Adoption means the start of the plan approval process. In the absence of a response from the competent forest administration, within 90 days from the submission to it of the plan proposal or equivalent planning instrument, the same is considered adopted.

Note 3: In the case of major disturbance events that lead to a substantial change in the state of the forest stands, a request for revision of the plan, the re-proposal of the plan from scratch that takes into account the changes made following the event, and the request for an administrative extension are admissible. Certification may also be considered valid with the changes described above, subject to evidence of the request made to the competent authorities.

Type of indicator

Mandatory

Measurement	
Parameters	Percentage of forest area managed according to forest management plans
	Percentage of forest area managed according to equivalent planning instruments
Criticality	Presence of planning instruments
threshold	
Example of	Forest management plan or its equivalent at company, inter-company or higher
detection and	planning level.
information	
source	

Indicator 3.1 b	Content of local forest planning
Type of indicator	Mandatory
Measurement	Presence in the forest management plan, or its equivalent at the company, inter-
Parameters	company or higher planning level referred to in indicator 3.1.a or in the regulations in force, of indications of:
	management objectives, the location (with mapping) and description of the resources to be managed and the areas designated for protective functions;
	modes of exercising silvicultural interventions, grazing and civic uses, as well as management activities related to the production of non-wood goods and recreational services (when these activities occur in the territorial area in question); productive capacity of forests and its evaluation;
	regulation, monitoring and control of non-wood forest products, including hunting and fishing (where these are the responsibility of the forest owner/manager and included in forest management);
	management directives for protected areas or special natural emergencies (including those reported in ind. 4.7.a), rare or endangered species (with reference to the documents where they are reported); protection of forest biodiversity;
	preservation, and where necessary, increase of an adequate proportion of rotting wood in the forest;
	analysis of past pest events, definition of treatment practices and silvicultural techniques to maximise ecosystem resistance to pests, weather events and fires; planning of the methods and timing of care interventions for juvenile stands (interim interventions);
	planning for the continuity of natural regeneration over time; identification of the widest possible range of products and services that can be derived from the forest, identification of management guidelines to consolidate its production
	guidelines for the management of individual trees or formations of high landscape value; maintenance of natural habitats for biodiversity;

	creation and maintenance of forest resource inventories and maps that are adapted to local and national conditions; maintaining and increasing the health and vitality of the forest and improving degraded ecosystems, through appropriate silvicultural measures and, if possible, by acting on the causes of degradation;
	minimising the risk of degradation and damage to forest ecosystems.
Criticality	Presence and compliance with the measurement parameter.
threshold	
Scope for	Supporting local forest planning with accurate and up-to-date inventory and mapping
improvement	tools
Example of	Forest management plan or its equivalent at company, inter-company or higher
detection and	planning level.
information	
source	

GL 3.2 The quality of forest management activities must be ensured, with the aim of maintaining and improving forest resources and encouraging diversified production of goods and services in the long term.

Indicator 3.2 a	Amount of products and services provided by the forest
Type of indicator	Informative
Measurement Parameters	Examples of forest products (timber, game in the case of direct management, chestnuts, truffles, fruits of the undergrowth, honey, medicinal plants, cork, mushrooms for food use, charcoal, Christmas trees, etc.) and ecosystem services, if of interest. Average annual quantity of wood mass produced, broken down by assortment type, with reference to the last few years: Number of licences/authorisations issued annually for the collection/harvest (indicate the non-wood product to which it refers) with reference to the last nyears: Percentage of corporate forest area permanently allocated as hunting reserve:
Scope for improvement	The production of woody and non-wood goods and services must tend not to decrease over time, compatible with local socio-economic conditions and environmental protection. The collection of information on the goods and services produced by the forest in the forest planning and administration documents at company or group level must be enhanced.
Example of	Local forest inventories; forest management plan or its equivalent at company,
detection and	intercompany or higher planning level; certificates from regional forestry services;
information	specific studies and local case studies; interviews; company administrative
source	documents; equivalent sources.

GL 3.3 The quantitative level of utilisation of forest products, both wooden and non-wood, shall not exceed a rate that can be continuously harvested in the long term and shall not damage the natural regeneration and replenishment capacity of the products. Optimum use must be made of the harvested products.

For the harvesting of wood products on properties larger than 100 ha the reference period for verifying sustainability is 10 years or as long as the forest management plan or other equivalent planning instrument.

Indicator 3.3 a	Balance between increase and utilisation of wood mass in recent years:
Type of indicator	Mandatory
Measurement	In forests:
Parameters	Average annual current increasemc. Average annual current increase
	implementedmc.
	In coppice:
	Annual average increase (or annual average current)in ton, cubic meter or
	stacked cubic meter. Average annual current implemented_in ton, cubic meter or
	stacked cubic meter, or
	Annual planimetric recovery implementedin ha.
Criticality	Within a given company property or the set of small properties within a territorial area,
threshold	the following applies:
	In the case of forest stands, at the level of individual stands, the removal must not
	exceed 80% of the current increase in woody mass, unless otherwise prescribed
	(e.g. linked to cultivation objectives, sink capacity, vulnerability to disturbances and
	climatic crisis) that may be established by the forest management plan as per
	indicator 3.1.a. and 3.1.b., or by extraordinary cuts authorised according to
	regional/provincial procedures.
	In the case of coppice, the average value in recent years of the fraction of the area
	annually utilised compared to the total coppice area must be no greater than 1/T,
	where T = the minimum rotation provided for by the regional forestry regulations in
	force (in years), unless otherwise established by the forest management plan referred
	to in indicator 3.1.a. and 3.1.b, or by extraordinary cuts authorised according to regional/provincial procedures. Alternatively, the average value of the ratio between
	increment and average annual removal must be no less than 1.
Example of	Local forest inventories; forest management plan or its equivalent at company,
detection and	intercompany or higher planning level; certificates from regional forest services, or
information	equivalent sources.
source	equivalent sources.
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GL 3.4 Operations to cultivate the forest and utilise the products that can be extracted must be carried out in a manner and timeframe that does not reduce the productive capacity of the forest stands involved and favouring techniques with a reduced environmental impact, in relation to the

specific operating conditions, also considering the aesthetic aspects and all the services linked to the presence of the forest.

Indicator 3.4 a	Removal of woody biomass
Type of indicator	Mandatory
Measurement	Forest utilisations that foresee the removal of whole trees from the forest (whole-
Parameters	tree-harvesting) are allowed, unless otherwise prescribed in the planning instrument
	or in the felling project or check report. In any case, the release of a fraction of the
	biomass is compulsory, with particular reference to the youngest woody parts in which
	mineral elements are concentrated, unless otherwise prescribed by forest fire
	regulations.
	At the time of utilisation in a coppice-managed forest with an average slope of more
	than 50 per cent, utilisation residues must be uniformly released in the cutting area.
	The uprooting and removal of root systems is not permitted, except in cases of
	phytosanitary emergencies or natural disasters.
Criticality	Presence of measurement parameter.
threshold	
Scope for	Identification of operational methods to quantify the amount of biomass released in
improvement	the forest.
Example of	Local forest inventories; specific studies and local case studies; interviews; evidence
detection and	from regional forest services; equivalent sources.
information	
source	

Indicator 3.4 b	Forest utilisation techniques
Type of indicator	Mandatory
Measurement	Use of biodegradable chainsaw oils and identification of at least one new strategy to
Parameters	be implemented to contain environmental impacts on forest ash (use of alkylate
	petrol, use of biodegradable mechanical fluids, use of wheeled vehicles with enlarged
	sections, use of cableways/cranes, suspension of use during certain periods, use of
	combined operating machines if suitable for the operational, managerial and
	organisational context, release of brushwood on the fall bed during the works to
	mitigate damage from woodcutting, etc) to be implemented gradually in the first
	five years of certification and maintained in subsequent years.
Criticality	Presence of measurement parameter.
threshold	
Scope for	Low-impact intervention strategies must be consolidated over time
improvement	
Example of	List of strategies already implemented and potentially implementable; logging
detection and	projects, forestry and environmental rehabilitation projects, certificates from regional
information	forestry services; specific studies and local case studies; interviews; equivalent
source	sources.

GL 3.5 Infrastructure, such as roads, bridges and logging tracks, must be planned, constructed and maintained in such a way as to ensure the efficient distribution of goods and services, while minimising negative impacts on the environment.

Indicator 3.5 a	Forest road density
Type of indicator	Mandatory
Measurement	Total length
Parameters	Density (linear meter/ha) of forest roads.
Criticality	Presence of measurement parameter
threshold	
Scope for	Presence of forest road mapping. The forest road network must be compatible both
improvement	with an efficient utilisation of the goods and services produced by the forest and with
	the hydrogeological, landscape, phytosanitary and faunal structure of the ecosystems
	concerned.
Example of	Forest road plan, local forest inventories; technical and thematic mapping; forest
detection and	management plan or its equivalent at company, intercompany or higher planning level;
information	specific studies and local case studies; certificates from regional forest services;
source	equivalent sources.

Indicator 3.5 b	Characteristics of forest roads
Type of indicator	Mandatory
Measurement	The layout of new forest roads and main forest tracks must be adapted to the
Parameters	microtopography of the territory and must minimise alterations to water flow, soil
	erosion and degradation processes. Presence/absence of a monitoring system of
	the state of the silvopastoral road system capable of guaranteeing the maintenance
	of forest roads, which must be carried out with techniques and materials that reduce
	their impact on the hydrogeological and landscape structure.
Criticality	Presence of measurement parameters.
threshold	
Scope for	Presence of a forest road plan indicating optimal construction and maintenance
improvement	methods of forest roads and tracks from the point of view of hydrogeological and
	landscape structure and from the point of view of the possibilities of ordinary use by
	local operators.
	Set-aside of the secondary tracks, with levelling of the furrows and insertion of small
	transversal barriers (e.g.: brushwood, utilisation residues, furrows) to avoid damage
	caused by water run-off.
Example of	Forest road plan, local forest inventories; technical and thematic mapping; forest
detection and	management plan or its equivalent at company, intercompany or higher planning level;
information	specific studies and local case studies; certificates from regional forest services;
source	equivalent sources

MAINTENANCE, CONSERVATION AND APPROPRIATE ENHANCEMENT OF BIOLOGICAL DIVERSITY IN FOREST ECOSYSTEMS

Indicator 4.1 a	Proportionality of the annual area of natural regeneration in relation to the total area
	under regeneration.
Type of indicator	Mandatory
Measurement	Total area in regeneration (ha) of which % in natural regeneration
Parameters	and % in artificial regeneration.
Criticality	The forest area under artificial regeneration must not exceed 30 % of the total forest
threshold	area undergoing regeneration, unless justified and documented technical reasons are
	given.
Scope for	Favour and implement natural regeneration in management models throughout the
improvement	territory, taking care to ensure the perpetuity of the forest.
	Recourse to artificial or artificially assisted regeneration, unless otherwise indicated
	in the forest management plan, should only be adopted where natural regeneration
	is impossible, due to pathological reasons or to serious damage caused by biotic and
	abiotic adversities, for which timely restoration is not possible, and using, where
	possible, autochthonous propagation material of certified or known provenance.
Example of	Forest management plans of various types (company, intercompany or higher level.
detection and	Direct verifications, or equivalent sources.
information	Cutting projects.
source	

Indicator 4.2 a	Differentiation between native and introduced species.
Type of indicator	Mandatory
Measurement	Number of introduced species and their % in relation to the tree composition of the
Parameters	stand present with reference to the number of plants or area.
	(Does not apply to tree formations with introduced/non native species planted for
	experimental purposes)
Criticality	Introduced non-native species in future afforestation/reafforestation must not lead to
threshold	an increase in the area of non-native species of more than 5% over the period of the
	plan's validity and in any case not exceeding 30% of the entire farm area, unless
	indicated in the management plan and equivalent planning instruments.
Scope for	For existing stands of introduced species, the GF should aim at the gradual
improvement	establishment of ecologically compatible stands with the site.
Example of	Forest management plans of various types (company, intercompany or higher level),
detection and	specific surveys and studies, forest inventories or maps, specific projects. Direct
information	verifications, or equivalent sources.
source	

Indicator 4.2 b	Quality of propagation material
Type of indicator	Mandatory
Measurement	Use of material of certified or known origin
Parameters	
Criticality	Exclusive use of material of certified or known origin.
threshold	
Example of	Forest management plans of various types (company, intercompany or higher level)
detection and	Direct verification, specific projects or equivalent sources
information	
source	

Indicator 4.2 c	Maintaining appropriate biological diversity in reforestations
Type of indicator	Mandatory
Measurement	Composition of afforestation
Parameters	Preservation of any existing trees, groups of trees or strips of shrub vegetation and
	the adoption of appropriate measures to encourage their growth and development.
Criticality	Prohibition of single-species afforestation, except under special conditions that do
threshold	not allow the use of two or more species and with justification.
	The main species may not exceed 75 per cent of the specific composition, except
	for reforestation cores of less than 5,000 m ² .
	Presence of natural vegetation strips
Example of	Forest management plans of various types (company, intercompany or higher level)
detection and	Direct verification, specific projects or equivalent sources
information	
source	

Indicator 4.3 a	Changes in the proportion of mixed forests consisting of 2 or more species
Indicator 4.3 b	Changes in the proportion of non-monostratified mixed forests
Type of indicator	Mandatory
Measurement	Forest area covered by mixed forests (tree composition of 2 or more species) ha and
Parameters	percentage of total forest area %.
	Forest area covered by non- monostratifiede forests ha and percentage of total forest
	area
Criticality	The forest area covered by forest types that are ecologically consistent in composition
threshold	and structure with the site must be more than 50 per cent of the total.
Scope for	Aiming to improve the tree composition of the stand in relation to the most appropriate
improvement	forest type for the forest site, favouring, where possible, multi-species and multi-
	layered silvicultural models, favouring rare tree species.

Example	of	Forest management plans of various types (company, intercompany or higher level	l)
detection	and		
information			
source			

GL 4.4 Forest infrastructures and activities must be planned and conducted in such a way as to minimise damage to ecosystems, especially ecologically important forest areas, endangered species and other significant species - in particular migratory wildlife trails.

Indicator 4.4 a	Guidelines or prescriptions for forest utilisation activities and the construction of
	infrastructure in ecologically important forest areas, where such ecosystems are
	present
Type of indicator	Mandatory
Measurement	Presence of directives or prescriptions for forest utilisation activities and the
Parameters	construction of infrastructures in rare, sensitive or representative ecosystems, where
	such ecosystems are present, as identified in the various institutive measures.
Criticality	Presence of measurement parameters.
threshold	
Example of	Forest management plan or its equivalent at company, intercompany or higher
detection and	planning level, existing national or local wildlife censuses, specific studies, floristic
information	surveys, bibliographic references in relation to the identified forest types, or equivalent
source	sources.

Indicator 4.4 b	Measures to safeguard fauna during forestry operations
Type of indicator	Mandatory
Measurement	Provision of measures to limit or suspend silvicultural activities during the breeding
Parameters	period of animal species indicated in national and regional red lists, where similar
	regulatory requirements are not already present in other regulatory instruments.
Criticality	Presence and compliance with the measurement parameter
threshold	
Scope for	Forest Management Plans must contain a wildlife report that takes into account the
improvement	possible impact of silvicultural interventions on wildlife species of special conservation
	interest. Monitoring of wildlife species.
Example of	National Red Lists
detection and	
information	
source	

GL 4.5 With due consideration for management objectives, measures must be taken to balance the pressure of domestic and wild animal populations on forest regeneration, growth, and biodiversity.

Safeguards must also be provided for rare, threatened and endangered species and their *habitats*, as well as for all species that are important for fauna feeding.

Indicator 4.5 a	Monitoring and damage control of wild animal populations
Type of indicator	Mandatory
Measurement	Monitoring and damage control in the forest
Parameters	
Criticality	Presence of measurement parameters.
threshold	
Scope for	Refining and improving the effectiveness of monitoring tools
improvement	
Example of	Forest management plans and equivalent; direct surveys or equivalent sources
detection and	
information	
source	

Indicator 4.5 b	Domestic animal grazing in the forest
Type of indicator	Mandatory
Measurement	Number of domestic animals grazing in forest per unit area: (in Unit of bovine per
Parameters	area). Number of months grazing in the forest
Criticality	Compliance with regulatory requirements and planning instruments.
threshold	
Scope for	Achieving a load compatible with the forest type present and its renewal, functionality
improvement	and diversity of forest ecosystems
Example of	Forest management plans at company, intercompany or higher district level, Direct
detection and	verification or equivalent sources
information	
source	

Indicator 4.6 a	Dead, monumental, historical and rare and sporadic species trees
Type of indicator	Mandatory
Measurement	Monumental trees belonging to rare and sporadic species, indication of species
Parameters	and estimate in no. or per unit area.
	Presence of standing dead trees and dead wood on the ground.
Criticality	Release of monumental trees of rare and sporadic native species. Exceptions
threshold	are permitted, with justified reasons, for sporadic species.
	Release of standing dead trees and dead wood on the ground, taking into
	account the safeguard of biological diversity and the potential effect on the
	health and stability of forest and sourronding ecosystems.
Example of	Forest management plans at company, intercompany or upper district level, park
detection and	environmental plans or forest management plans, forest inventories
	Natural monument databases, Direct verification or equivalent sources

information	Rare and sporadic species for the context: as per regional regulations, if present.
source	IUCN Red Lists

Indicator 4.6 b	Areas not subject to cutting, intended for free evolution.
Type of indicator	Mandatory
Measurement	Area released for free development:_(ha)
Parameters	Reasons for the choice of free evolution
Criticality	Presence of surface area for free evolution.
threshold	
Example of	Forest management plans at company, intercompany or upper district level, park
detection and	nature plans or Natura 2000 network management plans.
information	Direct verifications
source	

Indicator 4.7 a	Presence of old forests and wetlands (e.g. peat bogs) and their management
Type of indicator	Mandatory
Measurement	Marking the presence of areas covered by ancient forests and wetlands.
Parameters	Management must use techniques that avoid damage to ancient forests and
	wetlands.
Criticality	Presence of specific standards or measures for the areas covered by the indicator
threshold	
Scope for	Forest management must avoid damaging areas of monumental forests and
improvement	wetlands.
Example of	Forest management plan or its equivalent at company or inter-company level; specific
detection and	studies or equivalent sources.
information	
source	

Indicator 4.8 a	Silvicultural and planning guidance on forest utilisation
Type of indicator	Mandatory
Measurement	Prescriptions regarding silvicultural operations (final cuts, inter-cutting and care of all
Parameters	phases of forest development) and utilisation methods (timber concentration and
	extraction) within forest management plans or equivalent planning instruments
	pursuant to regional regulations and forest cutting or reforestation projects.
Criticality	Presence of and compliance with these requirements
threshold	
Example of	Forest management plans at company, intercompany or higher district level. Direct
detection and	verifications. Forest cutting or reforestation projects. General regulations, PMPFs.
	Any other source equivalent to those mentioned above.

information	
source	

Indicator 4.8 b	Preservation of ecologically important forest areas and endangered species
Type of indicator	Mandatory
Measurement	Presence of rare, threatened or endangered species
Parameters	
Criticality	Mapping of ecologically important forest areas and endangered species
threshold	
Example of	Natura 2000 network, specific studies on biodiversity
detection and	
information	
source	

Indicator 4.8 c	Inventory, mapping and planning of forest resources with a focus on ecologically
	important areas
Type of indicator	Mandatory
Measurement	Inventories and mapping
Parameters	of ecologically important areas.
	Presence of prescriptions or methods of intervention in forest utilisation to identify,
	safeguard and protect rare species and their habitats of high ecological value (see
	4.8.b), including through the identification of non-cut areas (see 4.6.b)
Criticality	Presence of and compliance with these requirements
threshold	
Example of	Forest management plans or equivalent planning instruments. Forest cutting or
detection and	reforestation projects. General regulations, PMPFs. Any other source equivalent to
information	those mentioned above
source	

MAINTAINING AND APPROPRIATELY IMPROVING THE PROTECTIVE FUNCTIONS OF FOREST MANAGEMENT (WITH SPECIFIC ATTENTION TO SOIL PROTECTION AND WATER REGULATION)

GL 5.1 The protective functions of forests for society including their ability to mitigate erosion, prevent flooding, purify water, regulate climate, sequester carbon and other regulatory or supporting ecosystem services must be maintained or enhanced.

Indicator 5.1 a	Availability of forest thematic mapping depicting the prevailing function of forested
	areas, with particular emphasis on the protective function
Type of indicator	Mandatory
Measurement	Cartographic files at a scale appropriate for planning and management purposes
Parameters	indicating which wooded areas are of predominant interest for soil protection, water
	quality and the possible direct protection of infrastructure.
Criticality	Presence of hydrogeological constraint mapping or other representation of the
threshold	protective function of the forest.
Example of	Cartographies of company and inter-company forest management plans, forest
detection and	inventories, thematic maps of soils, hydrogeological instability maps, basin plans,
information	forestry records, etc. Any other source equivalent to those mentioned above.
source	

Indicator 5.1 b	Extent of forest area managed for protection purposes and its changes over time
Type of indicator	Informative
Measurement	Forest area under protective restrictions ha, its % of the total forest area %
Parameters	
Scope for	Developing tools for monitoring the protective function of forests
improvement	
Example of	Forest management plans at company, intercompany or upper district level. Direct
detection and	verifications. Forest cutting or reforestation projects, etc. Any other source equivalent
information	to those mentioned above.
source	

Indicator 5.2 a	Silvicultural operations in forests
Type of indicator	Mandatory
Measurement	Clear-cutting and ground cover in forests
Parameters	
Criticality	In forest stands, clear cutting on areas exceeding ½ hectare is forbidden, except in
threshold	cases where it is indispensable for the natural regeneration of the forest or its

		application for this purpose is expressly indicated in the duly approved management	ent
		plan or equivalent planning/authorisation instruments or for phytosanitary purpose	es.
Scope	for	No cutting during the late spring/summer nesting period - biological standstill	
improvemer	nt		
Example	of	Forest management plans or equivalent planning instruments pursuant	to
detection	and	regional/provincial regulations or equivalent sources (see indicator 3.1.a).	
information			
source			

Indicator 5.2 b	Silvicultural operations in coppice forests
Type of indicator	Mandatory
Measurement	Cutting width in coppices in ha
Parameters	
Criticality	In coppices located in areas with an average slope equal to or greater than 80 per
threshold	cent, simple coppicing is prohibited, unless otherwise prescribed in the management
	plan, or equivalent planning instruments.
	In coppices located in areas with an average slope between 50% and 80% the
	bundled area subject to cutting must not exceed 2 ha on highly erodible soils, 5 ha
	in other cases. On average slopes of less than 50% the bundled area subject to
	cutting must not exceed 10 ha, without prejudice to any different prescriptions
	provided for by the duly approved management plan, or equivalent planning
	instruments.
Scope for	In regions where regulations do not indicate a cutting period, a period is defined
improvement	according to the physiological characteristics of the forest species and nesting
	periods.
Example of	Forest management plans or equivalent planning instruments according to
detection and	regional/provincial regulations or equivalent sources (see indicator 3.1.a).
information	
source	

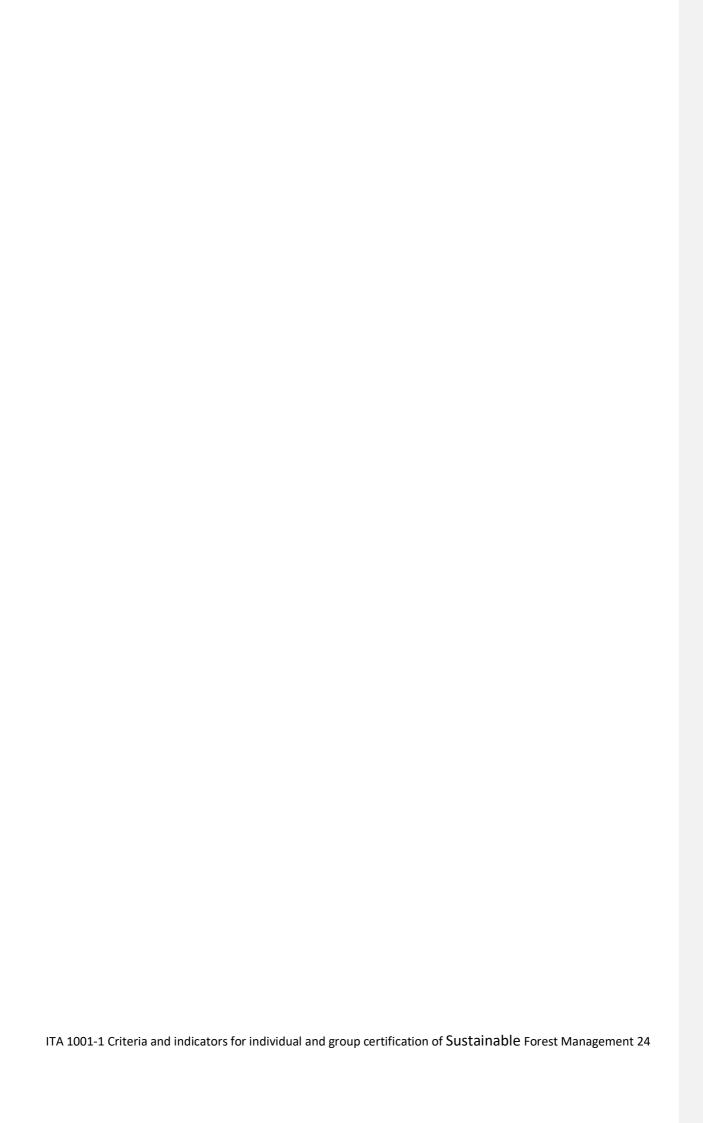
Indicator 5.2 c	Management differentiation in coppice-managed forests
Type of indicator	Informative
Measurement	Presence and ratio of areas of managed coppices (under management), intended for
Parameters	ageing, in start-up to high forest (public ownership and merged private ownership)
Example of	Forest management plan or its equivalent at company, inter-company or higher
detection and	planning level.
information	
source	

Indicator 5.2 d	Soil working in forest areas
Type of indicator	Mandatory

Measurement	Assessment of the nature of the soil work performed or the operations carried out on
Parameters	the litter, topsoil or turf.
Criticality	There must be no tilling of the soil and no widespread harvesting of litter, topsoil or
threshold	turf. This is without prejudice to any different prescriptions laid down in the forest
	management plan referred to in Ind. 3.1.a or interventions authorised under current
	procedures.
Example of	Forest management plan or its equivalent at company, inter-company or higher
detection and	planning level. Legislation and regulations at local level. Survey and registration of
information	the operations in question. Any other source equivalent to those mentioned above.
source	

Indicator 5.2	Criteria for carrying out timber gathering and extraction
and	
Type of indicator	Mandatory
Measurement	Directions for regulating the way in which timber is concentrated and removed in
Parameters	order to take due account of the need to avoid damage to soil, standing trees and
	regeneration.
Criticality	Presence and observance of guidelines to regulate the way in which timber is
threshold	concentrated and removed in order to take due account of the need to avoid damage
	to soil, standing trees and regeneration.
Example of	Forest management plan or its equivalent at company, inter-company or higher
detection and	planning level, regional and local regulations. Logging or environmental
information	redevelopment projects, local prescriptions and plans, minutes of checks or
source	equivalent sources.

Indicator 5.3 a	Silvicultural treatments in protective forests
Type of indicator	Mandatory
Measurement	Management recommendations aimed at maximising the protective function.
Parameters	
Criticality	Presence and compliance with the parameter
threshold	
Scope for	Monitoring/recording of events caused by biotic and abiotic adversities.
improvement	
Example of	Forest management plan or its equivalent at company, inter-company or higher
detection and	planning level, regulations and rules at local level, projects of works in progress and
information	carried out in the last decade with the aim of increasing or integrating the protective
source	efficiency of the forest.
	(see indicator 3.5.b for forestry and pastoral road works)



MAINTENANCE OF OTHER FUNCTIONS AND SOCIO-ECONOMIC CONDITIONS

6.1. Forest management planning must aim to respect the multiple functions of forests for society, have a special regard for the role of the forestry sector in rural development and the local economy, especially considering new training and employment opportunities related to the socio-economic functions of forests and their active sustainable management.

Indicator 6.1 a	Implementation of activities with positive direct and indirect employment impacts
Type of indicator	Informative
Measurement	Total number of employees in the organisation noand change in recent years .
Parameters	Percentage of employees of the organisation employed on a part-time basis out of
	the total number of employees %.
	Operation and maintenance and investment works carried out under direct
	administration: annual work units.
	Operation and maintenance and investment work carried out by third parties: annual
	work units.
	Quantification of the temporal integration of forestry work between winter utilisation
	in coppice and thinnings in stands converted to tall trees in the summer period
Example of	Interviews, public consultation, direct control; company balance sheets; insurance
detection and	and social security reports or equivalent sources.
information	
source	

Indicator 6.2.a	Evaluation system of socio-economic functions of interest to the individual
	organisation and the community at large.
Type of indicator	Informative
Measurement	Evaluation of the socio-economic functions of companies and the local community:
Parameters	woody and non-wood production.
Scope for	Consideration of non-commercial products and direct use by owners and rights
improvement	holders.
Example of	Specific studies, accounts, direct interviews or equivalent sources. General and/or
detection and	local reference standards.
information	
source	

Indicator 6.3 a	Evidence and protection of property rights, possession agreements and other forms
	of use, with particular regard to the correct definition of property limits, possible rights
	of civic use and the definition of inheritance processes
Type of indicator	Mandatory

Measurement	Documentation and/or cartography evidencing rights of ownership, possession, or
Parameters	other forms of use of forest land.
Criticality	Presence of and compliance with the directions contained in the regulations on the
threshold	use of collective rights.
Scope for	Integrate mapping as far as possible: in particular in the forest management plan or
improvement	similar documents, clearly identify publicly and privately owned forest areas.
Example of	Property contracts and leases. Interviews, public consultation, direct control. Forest
detection and	management plan, similar or equivalent documents.
information	
source	

Indicator 6.4 a	Amount of forests with public access for recreational purposes
Type of indicator	Informative
	Pursuant to the relevant articles of the Civil Code, all public and private unfenced land
	is subject to right of way and repassing
Measurement	Area of forests with public access for recreational purposes ha and its %_of total
Parameters	area
Scope for	Presence of accessibility improvement projects, Cartography of sites
improvement	
Example of	Forest management plan. Interviews, public consultation, direct control.
detection and	
information	
source	

Indicator 6.5 a	Historical cultural and spiritual forests
Type of indicator	Mandatory
Measurement	List or evidence of sites with historical cultural or spiritual value and their protection.
Parameters	
Criticality	Presence of the parameter and planned protection measures
threshold	
Scope for	Knowledge projects on the historical, cultural and spiritual characteristics of the area;
improvement	Cartography of sites.
Example of	Forest management plan. Interviews, public consultation, direct control. Specific lists
detection and	or registers.
information	
source	

GL 6.6 Local forestry experience and knowledge, as well as innovations and good practices promoted by forest owners and managers, non-governmental associations, and local communities must be valorised. Benefits from the application of such knowledge shall be equitably distributed.

Indicator 6.6 a	Management interventions with social value and evaluation of local forestry experience and knowledge, innovations and good practices.
Type of indicator	Mandatory
_ · ·	, , , , , , , , , , , , , , , , , , ,
Measurement	The organisation records management interventions with a social value, taking into
Parameters	account the various stakeholders related to forest management.
	The organisation records interventions to enhance local forestry experience and
	knowledge, as well as innovations and good practices.
Criticality	Presence of the parameter
threshold	
Scope for	Evaluation of actions to be taken in order to improve information and communication
improvement	with stakeholders
Example of	Interviews, direct verification, public consultation or equivalent sources.
detection and	
information	
source	

GL 6.7. Forest managers, contractors, employees and forest owners must be sufficiently informed and encouraged to keep up to date with sustainable forest management through continuous training. In addition, special attention must be paid in general to training, further training, information and other social services for workers and the local community. All actors involved in certification (individually or as members of GRs or GTs) are responsible for ensuring that the activities and operations of subcontractors comply/meet the criteria and indicators of the GFS

Indicator 6.7 a	Training and further education
Type of indicator	Mandatory
Measurement	Evidence and documentation of the training and further training of organisations and
Parameters	companies carrying out utilisation and cultivation activities.
Criticality	Presence and compliance with the measurement parameter according to the
threshold	requirements of current regional and provincial regulations.
Scope for	Respect of the measurement parameter for all those involved in the execution of
improvement	utilisation and cultivation care activities.
Example of	Certificates/certificates in accordance with current legislation, with reference to TU
detection and	34/2018 and related implementing decrees. Certificates of competence of the ECC
information	standard (European Chainsaw certificate - EFESC) are recognised as equivalent.
source	

Indicator 6.7 b	Investment in vocational training	
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Type of indi	cator	Informative	
Measureme	nt	Average annual investment in vocational training in the forestry sector	
Parameters			
Example	of	National and/or regional Forest Plan; Regional Forest Programme Rural	
detection	and	Development Plan (EC Reg. 1257/99 and EC Reg. 1698/2005); Specific farm	
information		investments or equivalent sources.	
source			

Indicator 6.8 a	Accident prevention in companies carrying out works on a direct or contract basis
Type of indicator	Mandatory
	Note: In Italy, there is legislation in place to regulate aspects of worker safety in the workplace.
Measurement	Forest management operations must be carried out in such a manner to protect the
Parameters	health and safety of workers and other persons who may be present.
Criticality	Use of PPE, in the cases provided for by the regulations in force. Signposting of
threshold	construction sites, in cases provided for by the regulations in force.
Scope for	Extension of the provisions for contract work also to standing sales
improvement	The holder of the certification in the collective heritage undertakes to promote
	activities aimed at the dissemination of skills in the use of the chainsaw and/or felling
	for those who work in the forest in the exercise of civic use.
Example of	Direct verification, interviews, documentary analysis or equivalent sources
detection and	
information	
source	

Indicator 6.8 b	Safety education and training courses if relevant					
Type of indicator	Mandatory					
Measurement	Attendance at safety education and training courses					
Parameters						
Criticality	Documentary evidence of sufficient security training					
threshold						
Scope for	Competence and training of management and operations personnel are taken into					
improvement	account and improved.					
Example of	Registrations, certificates of participation.					
detection and						
information						
source						
Indicator 6.8 c	Accident statistics					

Type of indicator	Informative
Measurement	Register with number of accidents at work in the organisation and % change over
Parameters	the last n. years

Indicator 6.9.a	Forest Improvement Fund				
Type of indicator	Mandatory				
Measurement	Part of the proceeds from the sale of forest products by public landowners	is			
Parameters	reinvested in resource enhancement measures to guarantee the multiple functio	ns			
	performed by the forest and in activities and interventions aimed at maintaining t	:he			
	forest's capacity to offer products and/or services of public interest.				
Criticality	In public forests, at least 10 per cent of the expected revenue from the sale of fore	est			
threshold	products is reinvested in forestry resource improvement measures.				
Scope for	In the area of public forest management, there should be an aim to increase t	:he			
improvement	percentage.				
Example of	Structure budgets of the previous calendar year or equivalent sources				
detection and					
information					
source					

Annex 1 - PLANNING SHEET - For properties over 100 ha with low management intensity

PEFC Forest							
Certification							
Sheet							
tab no.							

Organisation name		
Owner delegate	or	

Municipality	
Natura 2000	
sites (SCI SPA)	
Other protected	
areas	

Location	Altitude	Slope	Exposure	Lithological substrate
Renovation	Coverage%	coppice shift	coppice age	Roads

Cadastr	al surface area		surface				struc	ture	Composi		Wood r			Resumed	period:	Utilisa	ations
Sheet	Cadastral unit	total (ha)	% wooded	% non- forested	Management	Forest typology	type	%	(3 main species)	%	unit (q or m3/ ha)	total (q or m3)	1111/2 /()	Years period	Q or m3	year	total (q o m3)

TOTAL OF TOTAL OF TOTAL OF THE						
interventions planned over the 5 years Interventions carried out in the						
Further information						

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r		

Annex 2 - SIMPLIFIED PLANNING SHEET - For forest properties between 50 and 100 ha in size

PEFC Forest							
Certification							
Sheet							
tab no.							

Organisation name		
Owner delegate	or	

Municipality	
Natura 2000	
sites (SCI SPA)	
Other protected	
areas	

Location	Altitude	Slope	Exposure	Lithological substrate		
Renovation	Coverage%	coppice shift	coppice age	Roads		

Cadastral surface area			surface	ace		Composition		Wood mass		Utilisations	
Sheet	Cadastral unit	total (ha)	% wooded	% non- forested	Management	(3 main species)	⁰ /△	unit (q or m3/ha)	total (q or m3)	year	total (q or m3)

TOTAL						
interven planned years	tions over the 5					
Interven carried previous	tions out in the s 10 years					
Further informat	ion					

Cartography references	
references	
Date	
Editor's signature	
Signature owner or delegate	
or delegate	

Annex 3 - Additional Criteria and Indicators for GFS Territorial Group Certification

CRITERION 1 MAINTENANCE AND APPROPRIATE ENHANCEMENT OF FOREST RESOURCES AND THEIR CONTRIBUTION TO THE GLOBAL CARBON CYCLE

Indicator 1.1 a	Legal-political-administrative framework on the protection and improvement of forest		
	resources (particularly in relation to forest area and wood mass)		
Type of indicator	Mandatory		
Measurement	Availability of documentation on:		
Parameters	National and/or regional regulatory framework		
	Regional Forest Programme		
	Financial and technical tools to support integration between forest planning and other		
	spatial planning.		
	Appropriate financial and technical instruments aimed at encouraging the		
	achievement of wood mass levels suitable for the proper functioning of forest		
	systems.		
	Forms of authorisation or prescription for forest management		
Criticality	Presence of parameters		
threshold			
Scope for	Improving the compatibility of regulations with the principles of ecological, economic		
improvement	and social sustainability of forest management.		
Example of	Specific laws or regulatory instruments.		
detection and	Regional Forest Programme or Plan, Rural Development Plan under Reg. 1257/99.		
information	Specific expenditure chapters of regional or national competence, EU funding lines		
source			

Indicator 1.1 b	Forest area, other wooded land and changes in area (classified, where relevant,
	according to forest and vegetation types, ownership structure, chronological classes,
	forest origin)
Type of indicator	Mandatory
Measurement	Forest area in ha
Parameters	% change over the period of no
	Form of management: % coppice; % coppice; % mixed
	management.
Criticality	Reduction of forest area is not permitted (except in documented cases depending on
threshold	management and planning policies and in cases where there is compensation
	according to law)
	Percentage change in forest area greater than or equal to zero.

Scope	for	Initiating the process of coppice conversion where ecologically, economically and
improvement		socially possible or appropriate.
Example	of	National and/or regional forest inventories, forest and land-use maps, aerial photos,
detection	and	satellite images, cadastre, forest management plans.
information		
source		

Indicator 1.2 a	Availability of forest inventories, archives, maps, topographic and thematic maps,
	monitoring plans and descriptions of forest resources
Type of indicator	Informative
Measurement	Availability of cartographic and/or inventory documentation
Parameters	
Scope for	Increase and development of inventory, monitoring and mapping tools according to
improvement	national and European standards.
Example of	Cartography, forest inventories, specific studies
detection and	
information	
source	

1.3 Management plans, or their equivalent, appropriate to the size and use of the forest area, must be drawn up and periodically updated. They must be based on existing legislation as well as existing land use plans, and include forest resources as appropriate.

Monitoring of forest resources and evaluation of their management must be carried out periodically; the results must contribute (as feedback) to the planning process.

Indicator 1.3 a	Area under forest planning or equivalent (see also Ind. 3.1 b)	
Type of indicator	Informative	
Measurement	Percentage of planned area in relation to total forest area (possibly broken down by	У
Parameters	type of ownership).	
Example of	Forest management plans or equivalent	
detection and		
information		
source		

Indicator 1.3 b	Knowledge of the woody mass (adopted, as a first approximation and provisionally
	also as an indirect indicator of the total carbon stock set) of the forest areas
	(classified, if appropriate according to the different vegetation zones or classes), of
	the chronological classes or appropriate diametric distribution classes.

Type of indicator	Mandatory
Measurement	Currently available data
Parameters	
Criticality	Presence of data
threshold	
Scope for	Improving the quality of information.
improvement	
Example of	National forest inventory, regional forest inventories, management plans and
detection and	equivalents, regional forest statistics.
information	
source	

CRITERION 2 MAINTAINING THE HEALTH AND VITALITY OF FOREST ECOSYSTEMS

Indicator 2.1 a	Legal - political - administrative framework on maintaining the health and vitality of
	forest ecosystems
Type of indicator	Informative
Measurement	Regulatory framework to promote forest health and vitality.
Parameters	Programmes to control and monitor the presence of damaging agents and the
	occurrence of serious epidemics.
	Appropriate technical and financial instruments to avoid serious alteration of
	ecological processes.
	Additional means of information to monitor forest health and soil acidification.
	Forest management plans, or their equivalent, that specify ways and means to
	minimise the risks of degradation and damage to forest ecosystems.
Example of	Specific laws or regulatory instruments, international protocols.
detection and	National Forest Programme, Regional Forest Programme or Plan.
information	Rural Development Plan under Reg. 1257/99, other EU funding lines, specific
source	regional or national expenditure chapters;
	Specific studies conducted at national or regional level, forest fire plan, soil maps,
	inventories.
	Forest management plans or their equivalents, technical specifications, general
	prescriptions and forest police, forest regulations.

Indicator 2.2 a	Total deposition and/or exposure to air pollutants in forests and other wooded land.
	NOTES:
	Deposition is defined as total chemical <i>input</i> in forest ecosystems and is calculated
	by adding the <i>throughfall</i> and <i>stemflow</i> values corrected for absorption or release by leaves or needles;
	Exposure, defined by means of AOT40s, can be calculated from the data of passive samplers by means of appropriate models. These models must be made explicit; The evaluation of data on the basis of critical levels is one possibility to express the significance and implications of changes. The models applied, based on the available data, must be made explicit.
Turn of indicator	Informative
Type of indicator	Informative
Measurement	Chemical characteristics of atmospheric deposition of atmospheric concentrations of
Parameters	gaseous pollutants.
Scope for	Activation and implementation of environmental monitoring and control programmes.
improvement	Data may be taken into account as these programmes come into operation.

Example	of	The monitoring of atmospheric deposition of pollutants on forest ecosystems is
detection	and	carried out within national programmes. Locally, regional initiatives or those of
information		individual research institutes may coexist.
source		

Indicator 2.2 b	Crown condition and defoliation changes in forests and wooded areas, on one or
	more of the main tree species
Type of indicator	Informative
Measurement	Percentage of defoliated trees by damage class and species; defoliation statistical
Parameters	parameters.
	Variation in defoliation.
Scope for	Homogenisation of data collection and display criteria across regions.
improvement	
Example of a	The source of information is essentially the national Level I network. Locally, regional
source of	surveys may be available.
detection and	
information	

Indicator 2.2 c	Forests and other wooded land with damage caused by (1) abiotic, (2) biotic, (3)
	human-induced and (4) unknown causes, subdivided if possible according to the
	most important forest types.
	NOTES:
	Abiotic damage includes inter alia fire, wind and snow damage, landslides and
	avalanches. Specify when possible.
	Biotic damage includes among others: insects, fungi, grazing, game. Specify when
	possible.
	Human-induced damage includes, inter alia, mechanical damage from extraction and
	utilisation. Specify when possible.
	When more than one type of damage is present, indicate the prevailing category.
Type of indicator	Informative
Measurement	Presence of surveys and/or detection systems on damage by biotic agents (fungi,
Parameters	insects, grazing, game) and abiotic agents (fire, wind and snow damage, landslides
	and avalanches).
Coope	·
Scope for	Activation and improvement of survey and detection systems where they are lacking.
improvement	
Example of	Level I network surveys; forest inventories, aerial photos, satellite images, forest
detection and	management plans, wildlife plans, forest fire plans; permanent regional
	phytopathological inventories.
	1

information	
source	

Indicator 2.2	d d	State of soil chemical properties of forests and other wooded land, in relation to soil
		acidification and eutrophication, according to the main soil types.
Type of indic	ator	Informative
Measuremen	nt	pH value; C.S.C.; inorganic C/N.
Parameters		
Scope	for	Monitoring changes.
improvement	t	
Example	of	The monitoring of soil conditions in forest ecosystems is carried out within national
detection	and	programmes. Locally, regional initiatives or those of individual research institutes may
information		coexist. Existing national or regional soil maps.
source		

CRITERION 3 MAINTENANCE AND DEVELOPMENT OF PRODUCTIVE FUNCTIONS IN FOREST MANAGEMENT (WOOD AND NON-WOOD PRODUCTS)

Indicator 3.1 a	Percentage of forest area managed in accordance with forest management plans or equivalent planning instruments according to regional regulations, in force or under revision (forest management plans, forest economic plans, summary forest management plans, forest reorganisation plans, silvicultural intervention plans, silvicultural improvement plans, multiannual cutting plans, detailed integrated plans, forestry files, etc.).
Type of indicator	Informative
Measurement	Percentage of forest area managed according to forest management plans:
Parameters	
	Percentage of forest area managed according to equivalent planning instruments: ——· Percentage change in forest area managed according to forest management plans
	or equivalent planning instruments, with reference to the last n years:
Scope for	The percentage of forest area managed according to forest management plans or
improvement	equivalent planning instruments should tend to increase over time.
Example of	Forest inventories, regional statistics, regional administrative archives.
detection and	
information	
source	

Indicator 3.1 b	Amount of forest products
Type of indicator	Informative
Measurement	List of forest products (timber, game, chestnuts, truffles, fruits of the undergrowth,
Parameters	medicinal plants, cork, mushrooms for food use):
1 arameters	
	Average annual quantity of wood mass produced, broken down by assortment type
	(working wood, fuel wood), with reference to the last n years:
	Number of licences/authorisations issued annually for the collection/take of (indicate
	the non-wood product referred to), with reference to the last no
	years:
Scope for	The production of woody and non-wood goods must tend not to decrease over time,
improvement	compatible with socio-economic and environmental protection conditions.
	The collection of information on forest products in regional forest inventory, planning
	and administration documents must be strengthened.
Example of	Forest inventories, ISTAT yearbooks, regional statistics, specific studies, certificates
detection and	from regional forestry services, regional administrative archives.

information	
source	
Indicator 3.1 c	Legal-political-administrative framework on forest planning and management for the
	production of goods and services
Type of indicator	Mandatory
Measurement	MEASUREMENT PARAMETERS:
Parameters	Regulatory framework and specific financial instruments to encourage forest management planning and related implementation mechanisms in order to maintain and/or increase the capacity of forests to produce, on a sustainable basis, as diverse a range of goods and services as possible; to maintain efficiency and improve the economic performance of the forest production system and to foster integration between managers and/or producers and users
	and/or users in a broad sense; maintaining and/or increasing the wood production capacity of forests without triggering processes of degradation or impoverishment of ecosystems and ensuring appropriate fire protection.
	Regulatory framework and specific financial instruments able to encourage and regulate targeted forest management practices related to recreation and other forest services and harvesting/ harvesting of forest products listed in list 3.1.b.
	Regulatory framework and specific financial instruments capable of encouraging and regulating the planning, design, construction and maintenance of infrastructures to support surveillance, fire protection, management and utilisation of forest resources and to minimise their impact on the hydrogeological, landscape, phytosanitary and faunal structure of the ecosystems concerned.
Criticality	Presence of parameters
threshold	
Scope for	Presence of all possibly deficient measurement parameters.
improvement	
Example of detection and information source	Specific regional and national laws or measures; regional forestry programmes or plans or, in their absence, national forestry plan; development plans of Mountain Communities; specific expenditure chapters of regional and/or national competence; EU funding lines; rural development plans; regional forest fire plans; contractual agreements.
CRITERION 4	CONICEDVATION AND ADDDODDIATE ENGLANGEMENT OF DIOLOGICAL
VIAIN I ENAINCE,	CONSERVATION AND APPROPRIATE ENHANCEMENT OF BIOLOGICAL

MAINTENANCE, CONSERVATION AND APPROPRIATE ENHANCEMENT OF BIOLOGICAL **DIVERSITY IN FOREST ECOSYSTEMS**

Indicator 4.1 a	Legal-political-administrative framework on the overall capacity to maintain, conserve
	and enhance biological diversity

Type of indicator	Informative
Measurement	Legal and regulatory framework, consistent with state and EU regulations, aimed at
Parameters	ensuring sustainable forest management.
	Capacity to maintain and/or increase the biodiversity of forest ecosystems by
	ensuring the multifunctionality of the forest.
	Economic/political context that can stimulate habitat knowledge by providing
	supporting information and inventory tools.
Scope for	Presence of all measurement parameters
improvement	Evaluation on the effectiveness of parameters
Example of	Local and regional forestry laws or regulations aimed at ensuring sustainable forest
detection and	management.
information	Local and regional forestry laws or regulations (management plans, PMPFs, park
source	environmental plans, etc.) capable of guaranteeing the capacity to maintain and/or
	increase the biodiversity of forest ecosystems by ensuring the multifunctionality of
	the forest.
	Specific expenditure chapters of regional or local competence. Community funding
	lines.
	Inventories, Forest Management Plans at company, intercompany or higher district
	level.

Indicator 4.2 a	Legal-political-administrative framework on representative, rare and vulnerable forest
	ecosystems
Type of indicator	Informative
Measurement	Regulatory framework to ensure the protection of representative, rare and vulnerable
Parameters	forest ecosystems.
	Financial instruments for the promotion and maintenance of forests in protected
	areas.
	Information tools of an inventory and support nature for actions to support biodiversity
	and forest protection.
Scope for	Presence of all measurement parameters
improvement	Evaluation of the effectiveness of the parameters
Example of a	National and/or regional forestry laws or measures, Park Environmental Plans, or
source of	Forest Management Plans.
detection and	Specific expenditure chapters of regional competence, EU funding lines.
information	Inventories, forest management plans at company, intercompany or upper district
	level, park environmental plans or forest management plans, thematic maps at
	national and/or regional level;
	Habitats Directive and Special Areas of Conservation (SAC);
	Official national and regional lists of protected areas.
Indicator 4.2 b	Area of forests in protected areas
Type of indicator	Mandatory

Measurement	Forest area in protected areas ha and type of protection under
Parameters	national, regional and IUCN regulations;
	Change in forest area in protected areas in % over the period of no
	years.
Criticality	Changes in protected forest area: greater than or equal to 0
threshold	
Example of	Local and regional or national forestry laws or regulations establishing protected
detection and	areas. Environmental plans of national and regional parks, PTRC, area plans, etc.
information	
source	

Indicator 4.3 a	Legal-political-administrative framework on the general capacity to implement and
	support wildlife census and management activities with particular regard to species
	that may have a negative impact on forest regeneration, growth and biodiversity.
Type of indicator	Informative
Measurement	Legal, regulatory and administrative framework for carrying out censuses and wildlife
Parameters	plans.
	Economic/political and financial context to define and develop guidelines for wildlife
	census and management.
Scope for	Presence of measurement parameters
improvement	
Example of	Local and regional laws or regulations aimed at ensuring knowledge of wildlife.
detection and	Specific expenditure chapters of regional or local competence. Community funding
information	lines.
source	Wildlife censuses, wildlife plans.

Indicator 4.3 b	Loading of domestic animals in the forest
Type of indicator	Informative
Measurement	Presence of a regulatory framework and/or financial instruments to rationalise the
Parameters	burden of domestic animals in the forest
Scope for	Presence of measurement parameters
improvement	
Example of	National and/or regional forestry laws or measures, Park Environmental Plans, or
detection and	Forest Management Plans.
information	Specific regional or local expenditure chapters, EU funding lines.
source	

Indicator 4.3 c	Presence of a regulatory legal framework for the protection of endangered plant or
	animal species

Type of indi	cator	Informative
Measureme	ent	Legal framework for the protection of endangered species.
Parameters		
Example	of	Specific national, regional and/or local laws or measures (park environmental plans,
detection	and	park establishment laws specific laws. Red lists);
information		
source		

Indicator 4.4 a	Legal-political-administrative framework on the evaluation and support of traditional
	forest resource management systems
Type of indicator	Informative
Measurement	Presence of a regulatory framework and financial instruments for the protection and
Parameters	enhancement of traditional forest resource management systems.
Example of	Specific local and regional laws or measures
detection and	Specific expenditure chapters of regional or local competence. Community funding
information	lines.
source	

Indicator 4.5 a	Legal-political-administrative framework for the protection of dead, old, monumental
	and rare species trees
Type of indicator	Informative
Measurement	Presence of a regulatory framework capable of guaranteeing the protection of dead,
Parameters	ultracentenary, monumental and rare species trees.
	Presence of information tools of a management and support nature for actions to
	safeguard dead, old, monumental and rare species trees.
Example of	Regional and/or local forestry laws or measures.
detection and	Specific expenditure chapters of regional competence, EU funding lines.
information	Inventories, Forest Management Plans at company, intercompany or upper district
source	level, Park Environmental Plans or monument tree inventories.

CRITERION 5 MAINTAINING AND APPROPRIATELY IMPROVING THE PROTECTIVE FUNCTIONS OF FOREST MANAGEMENT (WITH SPECIFIC ATTENTION TO SOIL PROTECTION AND WATER REGULATION)

Indicator 5.1 a	Legal - political - and administrative framework on the ability to activate and maintain
	the protective functions of the forest (soil protection, water regulation and possible
	direct protection of infrastructure, protection against avalanches and rockfalls).
Indicator 5.2 a	Logal political and administrative framework on the shility to implement and
indicator 5.2 a	Legal - political - and administrative framework on the ability to implement and support inventorying and management activities of forest areas that take into account
	the prevailing functions of the forest, with particular reference to protective functions.
Type of indicator	Mandatory
Measurement	Legal regulatory and administrative framework to define and develop management
Parameters	planning guidelines for protection purposes.
	2. Economic/political and financial context capable of defining and developing
	management planning guidelines for protection purposes.
	3. Inventory and mapping information tools, planning tools and studies to support
	silvicultural management aimed at increasing and/or maintaining the protective
	functions of the forest.
Criticality	Presence of documents 1, 2 and 3
threshold	
Scope for	Implementation of studies and research aimed at drawing up directives and
improvement	regulations to optimise the protective functions of forests.
	Rationalisation and computerisation of inventory and mapping tools for the planning of areas with a protective function.
Example of a	Local and regional forest laws or measures or regulations aimed at supporting and
source of	guiding the management of forests that perform protective functions. Local and
detection and	regional forestry laws or measures or regulations (forest development plans, PMPFs,
information	park environmental plans, etc.) defining guidelines or management prescriptions for
	protective purposes. Inventories, and/or planning documents, also of a cartographic
	nature, of different levels able to define and elaborate management guidelines for
	protective purposes. Study and research initiatives to support silviculture aimed at
	improving the protective functions of forests and soil conservation.

Indicator 5.2 b	Availability of forest thematic mapping or other suitable documentation that locates
	the prevailing function of wooded areas, with particular regard to their protective
	function
Type of indicator	Mandatory

Measurement	Cartographic files at a scale appropriate for planning and management purposes
Parameters	indicating which wooded areas are of predominant interest for soil protection, water
	quality and the possible direct protection of infrastructure.
Criticality	Presence of hydrogeological constraint mapping. 100% of the planned forest area
threshold	must be covered by the cartography or other relevant documentation.
Scope for	Computerisation and dissemination of mapping and, alternatively, expansion of the
improvement	mapped area of forest management plans or similar.
Example of a	Cartographies of forest management plans, company and inter-company, forest
source of	inventories, thematic soil maps, hydrogeological instability maps, basin plans, forest
detection and	sheets, etc.
information	

Indicator 5.2 c	Extent of forest area managed for protection and hydrogeological purposes, related
	to water quality and related to infrastructure protection
Type of indicator	Informative
Measurement	Forest area under protective restrictions ha, its % of the total forest
Parameters	area
Scope for	Presence of monitoring plans.
improvement	Activation of tools for monitoring and verifying the protective function of forests
Example of	National and local laws, measures, forestry regulations, regional or local planning and
detection and	programming (national and regional park environmental plans, inventories, area plans,
information	plans and management tools at farm and inter-farm level) or their equivalents; hydro-
source	geological constraint map, hydro-geological instability map and other thematic maps
	at local, regional, basin plans, etc.

CRITERION 6 MAINTENANCE OF OTHER FUNCTIONS AND SOCIO-ECONOMIC CONDITIONS

6.1. Forest management planning must aim to respect the multiple functions of forests for society, have a special regard for the role of the forestry sector in rural development, and above all consider new employment opportunities related to the socio-economic functions of forests. Continuity of employment throughout the year must be an objective to aim towards; furthermore, the management of any reduction in personnel or the period of employment of employees must be conducted in a socially compatible manner.

Indicator 6.1 a	Employment in the forestry sector
Type of indicator	Informative
Measurement	Total number of employees in the forestry sector
Parameters	Change in the total number of persons employed in the forestry sector over the last
	n years %
Scope for	Monitor knowledge on the labour market, dividing the data by the forest utilisation
improvement	sector.
Example of	Statistical sources (ISTAT, Chamber of Commerce); Forest Plans/Programmes,
detection and	Rural Development Plan
information	
source	

Indicator 6.1 b	Legal - political - administrative framework on employment measures
Type of indicator	Mandatory
Measurement	Legal and regulatory background on direct and indirect employment measures
Parameters	Economic/political and financial environment capable of supporting the growth of the
	forestry system and the integration of the forestry sector into the rural sector
Criticality	Presence of documents 1 and 2
threshold	
Scope for	Improving the organisation of work through greater specialisation, qualification and
improvement	safety of workers.
Example of	National and/or regional forest laws or measures; Forest Plans/Programmes
detection and	
information	
source	

Indicator 6.2 a	Forestry as a percentage of Gross Domestic Product, or GDP, or other
	macroeconomic indicator
Type of indicator	Informative
Measurement	Percentage of the chosen indicator related to the forestry sector compared to the
Parameters	corresponding value of the regional primary sector

Scope	for	It is desirable for information to be known and for forestry indicators to increase	
improvemen	nt		
Example	of	Official statistics.	
detection	and		
information			
source			

Indicator 6.2 b	Legal - political - administrative framework on the capacity to promote the
	development of the forestry sector
Type of indicator	Informative
Measurement	Legal and regulatory framework to promote the development of the forestry sector.
Parameters	Economic/political and financial context able to define, elaborate and support policy
	lines to promote the development of the forestry sector.
	Information and dissemination tools aimed at promoting the development of the
	forestry sector.
Example of	Local and regional programmes or documents aimed at promoting the development
detection and	of the forestry sector.
information	
source	

Indicator 6.2 c	Monitoring the effects of management
Type of indicator	Informative
Measurement	Tools for monitoring the effects of public interest services related to forest
Parameters	management activities.
Example of	Specific studies; Regional plans; Ex ante and ex post monitoring of rural development
detection and	plans
information	
source	

Indicator 6.3 a	Legal - political - administrative framework on property rights
Type of indicator	Mandatory
Measurement	Legal and regulatory background on property rights, tenure agreements, customary
Parameters	rights and customary use regulations
Criticality	Presence
threshold	
Example of	National and/or regional forestry laws or measures;
detection and	Forest Plans/Programmes
information	
source	

Indicator 6.4 a

	Note: all Italian forests are accessible, except in the case of closed funds
Type of indicator	Mandatory
Measurement	Regulatory framework allowing public access, except in specific, regulated cases
Parameters	(closed funds, protected integral reserves, and other specific cases). Presence of
	regulation of use in relation to the different categories of potential users, and in
	particular the access modalities for hunters. Economic/political and financial context
	able to define programmes for the promotion of the areas and tourist/recreational
	activities.
	Information and dissemination tools aimed at promoting recreational services.
Criticality	Presence
threshold	
Scope for	Since forests are in most cases accessible to the public, improvements concern
improvement	signposting and usability, promotion and dissemination. Medium- to long-term
	projects to improve the usability of the forest by the public are desirable.
	Planning will have to consider recreational aspects in its drafting.

Indicator 6.5 a	Woods of historical, cultural and spiritual significance
Type of indicator	Informative
Measurement	List or evidence of forests of historical, cultural and spiritual significance
Parameters	
Example of	Regional Forest Programme
detection and	Inventories, specific research, land registers, etc.
information	
source	

Indicator 6.5 b	Legal - political - administrative framework relating to forests of historical, cultural
	and spiritual significance
Type of indicator	Mandatory
Measurement	Legal and regulatory framework to protect forests of historical, cultural and spiritual
Parameters	value
Criticality	Presence
threshold	
Example of a	National and/or regional forestry laws or measures;
source of	National and/or Regional Forest Plan; Regional Forest Programme
detection and	Environmental Plans, Park Plans, Forest Management Plans, Territorial Urban Plans,
information	Landscape Plans, etc.

6.6. Forest managers, contractors, employees and forest owners must be sufficiently informed and encouraged to keep up-to-date on sustainable forest management through continuous training.In

addition, special attention must be paid in general to training, further training, information and other social services for workers and the local community.

Indicator 6.6 a	Legal - political - administrative framework on vocational training
Type of indicator	Mandatory
Measurement	Legal, regulatory and planning framework to promote training and dissemination in
Parameters	the forestry sector.
Criticality	Presence
threshold	
Scope for	Special attention should be paid to training, further education, information and other
improvement	social services for workers and the local community.
Example of a	National and/or regional forestry laws or measures;
source of	National and/or Regional Forest Plan; Regional Forest Programme
detection and	Rural Development Plan (EC Reg. 1257/99);
information	Regional or provincial programmes and initiatives concerning training or outreach in
	forest areas.

Indicator 6.7 a	Legal - political - administrative framework on workers' safety, health and welfare
Type of indicator	Mandatory
Measurement	Legal and regulatory framework relating to workers' safety, health and welfare
Parameters	
Example of	National and/or regional forestry laws or measures;
detection and	National and/or Regional Forest Plan; Regional Forest Programme
information	
source	

Indicator 6.7 b	Accident statistics
Type of indicator	Mandatory
Measurement	Number of annual accidents in the forestry sector and % change over the last n.
Parameters	years
Example of	Official statistics, studies and specific research (ASL, INAIL data; Labour
detection and	Inspectorate data, etc.)
information	
source	